## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents Washington, D.C. 20231

(JUL 1 5 1999

Washington, D.C. 202	31	E.				
As a below-nan	ned inven	tor, I hereby de	RADEMARY. Clare that I believe I am:			
the original, first a	nd sole in	ventor; or				
an original, first a	nd joint in	ventor along w	ith the other inventors lis	sted below, of the subject	t matter whic	ch is
claimed and for which a	ı patent is	s sought on the	e invention entitled			
AUTOANTIGENIC FRA	AGMENT	S, METHODS A	AND ASSAYS			
the specification of whi	ch	is attached h	ereto;			
	$\boxtimes$	was filed on	April 22, 1999	as Application		
		Serial No.	09/296,662	and was amer	ıded	
		through		( if applicable).		
I hereby state	that I hav	e reviewed and	d understand the conten	ts of the above-identified	specification	n, including
the claims, as amended	as indica	ated above.				
I acknowledge	the duty t	o disclose to th	e Patent and Trademark	Office all information kno	own to me to	be material
to the patentability of thi	is applica	ition in accorda	ance with Title 37, Code	of Federal Regulations,	§1.56.	
					٠.	
			Foreign Priority	v		
I hereby claim fo	reign pric	ority benefits ur	nder Title 35, United Sta	tes Code, §119 (a)-(d) c	of any foreigi	n application(s)
for patent or inventor's ce	ertificate l	listed below an	d have also identified be	elow any foreign applica	tion for pater	nt or
inventor's certificate for the	ne same	invention havir	ng a filing date before tha	at of the application on w	hich priority	is claimed:
		Prior For	eign Application(s)		Priority C	Claimed
Country	Number		Date Filed	Attorney Docket	Yes	No
Country	Number		Date Filed	Attorney Docket	Voo	No



I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

60/082,643	April 22, 1998	20221PV
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No. Filing Date Attorney Do		Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date(s) of the prior application(s) and the national or PCT international filing date of this application:

Appln. Ser. No.	Filing Date	Status	Attorney Docket
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Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket

And I hereby appoint		
Michael D. Yablonsky	Jack L. Tribble	
Reg. No. 40,407	Reg. No. 32,633	Reg. No.
respectively and individually, as	s my attorneys or agents with full power o	f substitution and revocation, to prosecute this
application and to transact all be	usiness in the Patent and Trademark Offic	ce connected therewith. Please address all
communications to:		

Michael D. Yablonsky
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

Full name of sole or joint inventor	ANTHONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Columbia, MD 21044	Residence	Montreal, Quebec, Canada
Citizenship	US	Citizenship	CA
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A ANDRADE
Inventor's Signature		Inventor's Signature	Wighteda).
Date		Date	6-14.99
Residence	Columbia, MD 21044	Residence	Baltimore, MD 21218
Citizenship	US	Citizenship	UB MEXICO 74. 6.14.59
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	720 Rutland Avenue Baltmore, MD 21205

Full name of joint inventor	SOPHIE ROY	Full name of joint inventor	NANCY A. THORNBERRY
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Montreal, Quebec, Canada	Residence	Westfield, NJ 07090
Citizenship	CA	Citizenship	US
Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor		Full name of joint inventor	
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence		Residence	
Citizenship		Citizenship	
Post Office Address (if different from above)		Post Office Address (if different from above)	

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION AND POWER OF ATTORNEY

Assistant Comm Washington, D.	nissioner for Pate C. 20231	ents Mu 15	See as			
As a be	low-named inven	tor, I herebyde	clarifthat I believe	l am:		
the origina	al, first and sole in	ventor; or				
an origina	l, first and joint in	ventor along w	ith the other inver	ntors listed below, of the subjec	t matter whic	h is
claimed and for	which a patent is	s sought on the	e invention entitle	d		
AUTOANTIGEN	NIC FRAGMENTS	S, METHODS A	AND ASSAYS			
the specification	n of which	is attached h	ereto;			
	$\boxtimes$	was filed on	April 22, 1999	as Application		
		Serial No.	09/296,662	and was amer	nded	
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I hereb	y state that I hav	e reviewed and	d understand the	contents of the above-identified	I specification	n, including
the claims, as a	mended as indica	ated above.				
I ackno	wledge the duty t	o disclose to th	ne Patent and Trac	demark Office all information kn	own to me to	be material
to the patentabi	lity of this applica	tion in accorda	ance with Title 37	, Code of Federal Regulations,	, §1.56.	
			Foreign F	Priority		
I hereby	claim foreign prid	ority benefits u	_	ed States Code, §119 (a)-(d)	of any foreig	n application(s)
or patent or inve	entor's certificate	listed below ar	nd have also ident	tified below any foreign applica	ition for pate	nt or
nventor's certific	ate for the same	invention havir	ng a filing date be	fore that of the application on v	which priority	is claimed:
		Prior Fo	reign Applicati	ion(s)	Priority (	Claimed
·					]	
Country	Number		Date Filed	Attorney Docket	Yes	No
			1		] 🗆	
Country	Number		Date Filed	Attorney Docket	Yes	No No

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60/082,643	April 22, 1998	20221PV	
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And I hereby appoint		
Michael D. Yablonsky	Jack L. Tribble	
Reg. No. 40,407	Reg. No. 32,633	Reg. No.
respectively and individually, as	my attorneys or agents with full power of	substitution and revocation, to prosecute this
application and to transact all bu	usiness in the Patent and Trademark Office	e connected therewith. Please address all
communications to:		

Michael D. Yablonsky
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

Full name of sole or joint inventor	ANTHONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	Sunc 25, 1999
Date		Date	June 25, 1999
Residence	Columbia, MD 21044	Residence	Montreal, Quebec, Canada
Citizenship	US	Citizenship	СА
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A. ANDRADE
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Columbia, MD 21044	Residence	Baltimore, MD 21218
Citizenship	US	Citizenship	US
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Full name of joint inventor	SOPHIE ROY	Full name of joint inventor NANCY A. THORNBERRY
Inventor's Signature	Aplie lay	Inventor's Signature
Date	Tune 25 1999	Date
Residence	Montreal, Quebec, Canada	Westfield, NJ 07090 Residence
Citizenship	CA	Citizenship US
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Full name of joint inventor		Full name of joint inventor
Inventor's Signature		Inventor's Signature
Date		Date
Residence		Residence
Citizenship		Citizenship
Post Office Address (if different from above)		Post Office Address (if different from above)

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Assistant Commissioner for Patents Washington, D.C. 20231

JUL 15 1999 19

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As a below-n	amed inver	itor. I herebyd	enlare in believe I an	n·		
As a below-named inventor, I hereby temperature believe I am:  the original, first and sole inventor; or						
				listed below, of the subje	ect matter which is	
claimed and for which	a patent is	s sought on th	e invention entitled			
AUTOANTIGENIC FF	RAGMENT	S, METHODS	AND ASSAYS			
the specification of w	hich	is attached I	hereto;			
	$\boxtimes$	was filed on	April 22, 1999	as Application	1	
		Serial No.	09/296,662	and was ame	ended	
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I hereby state	that I have	e reviewed and	d understand the conte	nts of the above-identifie	d specification, including	
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i acknowledge	the duty to	disclose to th	ne Patent and Tradema	rk Office all information kr	nown to me to be material	
				e of Federal Regulations		
			Foreign Priori	ty		
I hereby claim fo	oreign prior	ity benefits ur	nder Title 35, United St	ates Code, §119 (a)-(d)	of any foreign application(s)	
for patent or inventor's o	ertificate lis	sted below an	d have also identified t	pelow any foreign applica	ation for patent or	
				nat of the application on v		
				, , , , , , , , , , , , , , , , , , ,	mon phonty is claimed.	
		Daine For				
		Prior For	eign Application(s)		Priority Claimed	
Country						
Country	Number		Date Filed	Attorney Docket	Yes No	
	<del></del>			T		
Country	Number		Date Filed	Attorney Docket	Yos No	

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And I hereby appoint		
Michael D. Yablonsky	Jack L. Tribble	
Reg. No. 40,407	Reg. No. 32,633	Reg. No.
respectively and individually, as	my attorneys or agents with full power of	substitution and revocation, to prosecute this
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### DECLARATION AND POWER OF ATTORNEY

Full name of sole or joint inventor	ANTHONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	
Date		Date	
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Citizenship	US	Citizenship	CA
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Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A. ANDRADE
Inventor's Signature		Inventor's Signature	
Date		Date	
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Full name of joint inventor	SOPHIE ROY	Full name of joint inventor	NANCY A. THORNBERRY
Inventor's Signature		Inventor's Signature	narch Thanking
Date		Date	6/11/99
Residence	Montreal, Quebec, Canada	Residence	Westfield, NJ 07090
Citizenship	CA	Citizenship	US
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Inventor's Signature		Inventor's Signature	
Date		Date	
Residence		Residence	
Citizenship		Citizenship	
Post Office Address (if different from above)		Post Office Address (if different from above)	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION AND POWER OF ATTORNEY

**Assistant Commissioner for Patents** Washington, D.C. 20231



			CAT 6 1	RADEMARKS				
	As a below-nam	ned inven	tor, I hereby de	clare that I believ	e I am:			
	the original, first ar	nd sole in	ventor; or					
$\boxtimes$	an original, first ar	nd joint in	ventor along w	rith the other inve	entors listed bel	ow, of the subject	matter whic	ch is
claim	ned and for which a	patent is	s sought on the	e invention entitle	ed			
AUT	OANTIGENIC FRA	GMENT	S, METHODS .	AND ASSAYS				
	***			ye., <u>(</u>				
the s	specification of which	ch 🗌	is attached h	ereto;				
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to the	e patentability of this							
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				Foreign	•			
_	I hereby claim for						_	, ,
tor pat	tent or inventor's ce	ertificate l	isted below an	d have also ider	ntified below an	y foreign applicat	ion for pater	nt or
invent	or's certificate for th	ne same i	invention havir	ng a filing date be	efore that of the	application on w	hich priority	is claimed:
			Prior For	eign Applicat	tion(s)		Driority (	Claimad
	T					- 1,7,7,11	Priority C	naimeu —
Count	tny	Number		Date Filed	Attorno	ey Docket	· 📙	L.
Count	,	HUITIDEI		Date Filed	LAttorne	By DOCKEL	Yes	No
Count	try	Number		Date Filed	Attorne	ey Docket	Yes	No.

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Michael D. Yablonsky	Jack L. Tribble	
Reg. No. 40,407	Reg. No. 32,633	Reg. No.
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Michael D. Yablonsky
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

Full name of sole or joint inventor	ANTYONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	
Date	6-14-99	Date	
Residence	Columbia, MD 21044	Residence	Montreal, Quebec, Canada
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Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A. ANDRADE
Inventor's Signature	Riva Casida-loser	Inventor's Signature	
Date	06/14/99	Date	
Residence	Columbia, MD 21044	Residence	Baltimore, MD 21218
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### DECLARATION AND POWER OF ATTORNEY

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Inventor's Signature		Inventor's Signature	
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